

What is claimed is:

- 1 1. A text messaging system made up of a plurality of
- 2 information terminals provided with communications means,
- 3 and servers connected to the information terminals via
- 4 communications lines responsive to the communications means,
- 5 the text messaging system comprising:
 - 6 transmission means provided in the information
 - 7 terminals for transmitting to the servers text messages
 - 8 addressed to other of the information terminals;
 - 9 reception means provided in the information terminals
 - 10 for receiving from the servers text messages from other of
 - 11 the information terminals;
 - 12 status detection means provided in the information
 - 13 terminals for detecting and reporting to the servers
 - 14 operational status including at least status of connection
 - 15 with the communications lines;
 - 16 reception means provided in the servers for receiving
 - 17 text messages from the information terminals;
 - 18 transmission means provided in the servers for
 - 19 transmitting text messages received from ones of the
 - 20 information terminals to others of the information
 - 21 terminals;
 - 22 status administration means provided in the servers for
 - 23 holding per user information-terminal operational status

1 reported from said status detection means; and
2 decision means provided in the servers for deciding
3 transmission modes for the text messages according to the
4 information terminal operational status.

1 2. A text messaging system made up of at least one
2 mobile terminal and at least one information terminal
3 respectively provided with communication means, and at least
4 one server connected to the at least one mobile terminal and
5 to the at least one information terminal via at least one
6 communications line responsive to the communications means,
7 the text messaging system comprising:

8 transmission means provided in the at least one
9 information terminal for transmitting to the at least one
10 server text messages addressed to the at least one mobile
11 terminal, or to at least one other information terminal
12 wherein the system includes a plurality thereof;

13 reception means provided in the at least one
14 information terminal for receiving from the at least one
15 server text messages from the at least one mobile terminal,
16 or from at least one other information terminal wherein the
17 system includes a plurality thereof;

18 status detection means provided in the at least one
19 information terminal for detecting and reporting to the at
20 least one server operational status including at least
21 status of connection with the at least one communications

22 line;

23 reception means provided in the at least one server for
24 receiving text messages from the at least one mobile
25 terminal or the at least one information terminal;

26 transmission means provided in the at least one server
27 for transmitting to the at least one information terminal
28 text messages received from the at least one mobile
29 terminal, and transmitting to the at least one mobile
30 terminal text messages received from the at least one
31 information terminal, or transmitting text messages received
32 from the at least one mobile terminal or the at least one
33 information terminal to at least one other mobile terminal
34 or to at least one other information terminal wherein the
35 system includes a plurality of either;

36 status administration means provided in the at least
37 one server for holding per user information-terminal
38 operational status reported from said status detection
39 means; and

40 decision means provided in the at least one server for
41 deciding transmission modes for the text messages according
42 to the information terminal operational status.

1 3. A text messaging system according to claim 2,
2 wherein:

3 said status detection means further detects and reports
4 to the at least one server whether the at least one

5 information terminal is being used; and

6 said decision means if the at least one information
7 terminal is being used decides the at least one information
8 terminal to be a transmission destination for text messages.

1 4. A text messaging system according to claim 2, the at
2 least one information terminal further being provided with
3 service detection means for detecting and for reporting to
4 the at least one server network-application operational
5 status in the at least one information terminal; wherein:

6 said status administration means holds the reported
7 network-application operational status; and

8 said decision means, wherein the network application is
9 operable on the at least one server, decides to transmit
10 text messages using the network application if the network
11 application is running on the at least one information
12 terminal.

1 5. A text messaging system according to claim 2,
2 wherein said transmission means is enabled to notify the at
3 least one server that a text message has been read, further
4 comprising:

5 reporting administration means provided in the at least
6 one server for saving text messages transmitted to the at
7 least one information terminal, and, wherein not notified to
8 the effect that a text message has been read, for forwarding
9 the text message to the at least one mobile terminal.

1 6. A text messaging system according to claim 5,
2 wherein said reporting administration means forwards to the
3 at least one mobile terminal text messages transmitted to
4 the at least one information terminal in response to change
5 in operational status of the at least one information
6 terminal.

1 7. A text messaging system according to claim 5,
2 wherein if a text message transmitted to the at least one
3 information terminal is not read within a predetermined time
4 period, said reporting administration means forwards the
5 text message to the at least one mobile terminal.

1 8. A text messaging system according to claim 5,
2 wherein said reporting administration means in predetermined
3 instances reports to text message send sources that their
4 text messages have been sent to the at least one mobile
5 terminal.

1 9. A text messaging system according to claim 5,
2 wherein if said reporting administration means cannot send a
3 text message to the at least one mobile terminal, said
4 reporting administration means stores the text message and
5 reports to the text message send source that its text
6 message has been stored.

1 10. A text messaging system according to claim 2,
2 wherein:
3 said status detection means reports to the at least one

4 server text message senders' contact phone numbers;
5 said status administration means holds the reported
6 phone numbers; and
7 wherein a text message is sent from the at least one
8 information terminal to the at least one mobile terminal, if
9 the senders' contact phone number has been set, said
10 decision means adds the phone number to and transmits the
11 text message.

1 11. A text messaging system according to claim 2,
2 further comprising a proxy information terminal connected to
3 the at least one communications line, wherein said proxy
4 information terminal is provided with:

5 reception means for receiving from the at least one
6 server text messages from the at least one mobile terminal;

7 information acquisition means for obtaining in
8 accordance with the received text messages operational
9 status of at least one other information terminal wherein
10 the system includes a plurality thereof;

11 transmission means for transmitting the obtained
12 operational status as a text message to the at least one
13 mobile terminal; and

14 information setting means for setting and reporting to
15 the at least one server operational status of the at least
16 one other information terminal in accordance with the
17 received text messages.

1 12. A text messaging system made up of at least one
2 mobile terminal and at least one information terminal
3 respectively provided with communication means, a first
4 server connected to the at least one information terminal
5 via at least one communications line responsive to the
6 communications means, and a second server connected to the
7 at least one mobile terminal and to the at least one
8 information terminal via the at least one communications
9 line, the text messaging system comprising:

10 transmission means provided in the at least one
11 information terminal for transmitting to the second server
12 text messages addressed to the at least one mobile terminal,
13 or to at least one other information terminal wherein the
14 system includes a plurality thereof;

15 reception means provided in the at least one
16 information terminal for receiving from the second server
17 text messages from the at least one mobile terminal, or from
18 at least one other information terminal wherein the system
19 includes a plurality thereof;

20 status detection means provided in the at least one
21 information terminal for detecting and reporting to the
22 first server operational status including at least status of
23 connection with the at least one communications line;

24 status administration means provided in the first
25 server for gathering and holding per user information-

26 terminal operational status from the at least one
27 information terminal;

28 reception means provided in the second server for
29 receiving text messages from the at least one mobile
30 terminal or the at least one information terminal;

31 transmission means provided in the second server for
32 transmitting text messages received from the at least one
33 mobile terminal or the at least one information terminal to
34 at least one other mobile terminal or to at least one other
35 information terminal wherein the system includes a plurality
36 of either; and

37 decision means provided in the second server for
38 obtaining from the first server operational status of the at
39 least one information terminal for deciding text message
40 transmission mode according to the obtained operational
41 status.

1 13. A text messaging system according to claim 12, the
2 at least one information terminal is enabled to notify the
3 second server that a text message has been read, further
4 comprising:

5 reporting administration means provided in the second
6 server for saving text messages transmitted to the at least
7 one information terminal, and, wherein not notified to the
8 effect that a text message has been read, for forwarding the
9 text message to the at least one information terminal.

1 14. In an information terminal provided with
2 communication means for transmitting and receiving text
3 messages among mobile terminals or other information
4 terminals via communication lines and servers responsive to
5 said communication means, a text messaging device
6 comprising:

7 transmission means for transmitting to the servers text
8 messages addressed to the mobile terminals or to the other
9 information terminals;

10 reception means for receiving from the servers text
11 messages from the mobile terminals or from the other
12 information terminals; and

13 status detection means for detecting and reporting to
14 the servers operational status including at least status of
15 connection with the communications lines.

1 15. A text-messaging server connected to at least one
2 mobile terminal and at least one information terminal
3 respectively provided with communication means, via at least
4 one communications line responsive to the communications
5 means, the server comprising:

6 reception means for receiving text messages from the at
7 least one mobile terminal or the at least one information
8 terminal;

9 transmission means for transmitting text messages
10 received from the at least one mobile terminal or the at

11 least one information terminal to at least one other mobile
12 terminal or to at least one other information terminal
13 wherein the server is connected to a plurality of either;
14 status administration means for receiving and holding
15 per user operational status from the at least one
16 information terminal; and
17 decision means for deciding transmission modes for the
18 text messages according to the information terminal
19 operational status.

1 16. A computer-readable recording medium on which is
2 recorded a text messaging program utilized in an information
3 terminal provided with communication means for transmitting
4 and receiving text messages among mobile terminals or other
5 information terminals via communication lines and servers
6 responsive to said communication means, the computer-
7 readable recording medium on which is recorded the text
8 messaging program for executing:

9 A: a transmission step for transmitting to the servers
10 text messages addressed to the mobile terminals or to the
11 other information terminals;

12 B: a reception step for receiving from the servers text
13 messages from the mobile terminals or from the other
14 information terminals; and

15 C: a status detection step for detecting and reporting
16 to the servers operational status including at least status

17 of connection with the communications lines.

1 17. A computer-readable recording medium on which is
2 stored a text messaging administration program utilized in a
3 server connected to at least one mobile terminal and at
4 least one information terminal respectively provided with
5 communication means, via at least one communications line
6 responsive to the communications means, the computer-
7 readable recording medium on which is recorded the text
8 messaging administration program for executing:

9 A: reception step for receiving text messages from the
10 at least one mobile terminal or the at least one information
11 terminal;

12 B: a transmission step for transmitting received text
13 messages to at least one other mobile terminal or to at
14 least one other information terminal wherein the system
15 includes a plurality of either;

16 C: a status administration step for obtaining and
17 holding per user operational status of the at least one
18 information terminal; and

19 D: a decision step for deciding text message
20 transmission mode according to the operational status of the
21 at least one information terminal.

1 18. A text messaging method utilized in a server
2 connected to at least one mobile terminal and at least one
3 information terminal respectively provided with

4 communication means, via at least one communications line
5 responsive to the communications means, the text messaging
6 method:

7 transmitting and receiving text messages by way of the
8 server between the at least one mobile terminal and the at
9 least one information terminal, or between the at least one
10 mobile terminal and the at least one other mobile terminal
11 wherein the system includes a plurality thereof, or between
12 the at least one information terminal and at least one other
13 information terminal wherein the system includes a plurality
14 thereof;

15 detecting and reporting to the server operational
16 status of the at least one information terminal including at
17 least status of connection with the at least one
18 communications line;

19 holding per user in the server the operational status
20 of the at least one information terminal; and

21 by means of the server deciding transmission mode for
22 the text messages according to the operational status of the
23 at least one information terminal.

1 19. A text message transmission and reception method
2 utilized in an information terminal provided with
3 communication means for transmitting and receiving text
4 messages among mobile terminals or other information
5 terminals via communication lines and servers responsive to

6 said communication means, the text message transmission and
7 reception method:

8 transmitting to the servers text messages addressed to
9 the mobile terminals or to the other information terminals;

10 receiving from the servers text messages from the
11 mobile terminals or from the other information terminals;
12 and

13 detecting and reporting to the servers operational
14 status including at least status of connection with the
15 communications lines.

1 20. A text-messaging administration method for a server
2 connected to at least one mobile terminal and at least one
3 information terminal respectively provided with
4 communication means, via at least one communications line
5 responsive to the communications means, the text-messaging
6 administration method:

7 receiving from the at least one mobile terminal or the
8 at least one information terminal text messages addressed to
9 the other at least one mobile terminal or at least one
10 information terminal, or addressed to at least one other
11 mobile terminal or to at least one other information
12 terminal wherein the system includes a plurality of either;

13 transmitting the received text messages to the other at
14 least one mobile terminal or at least one information
15 terminal, or addressed to at least one other mobile terminal

16 or to at least one other information terminal wherein the
17 system includes a plurality of either;
18 gathering and holding per user operational status of
19 the at least one information terminal including at least
20 status of connection with the at least one communications
21 line; and
22 deciding transmission mode for the text messages
23 according to the operational status of the at least one
24 information terminal.

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